

Abstract of the Disclosure

Isolated and purified lipxygenase proteins and nucleic acids are described. Particularly, a novel human 15(*S*) lipxygenase (15-Lox-2) protein and cDNA and a cDNA
5 for mouse 8*S*-lipxygenase are described. Recombinant host cells, recombinant nucleic acids and recombinant proteins are also described, along with methods of producing each. Isolated and purified antibodies to 15-Lox-2 and 8-Lox, and methods of producing the same, are also described.